

A<sup>1</sup>. airstream to that same heat exchanger and through said other blower, when said air switch rotates in a 180° turn, such that during operation, said air switch rotates in a single direction.

A<sup>2</sup>. 19. (Amended) A housing for a heat recovery ventilator having a single rotating air switch which, during operation, operates in a single direction, said air switch having a pair of opposing side plates, a plurality of regenerative heat exchangers, a fresh air blower, a stale air blower, a motor for driving the blowers and the air switch, said housing comprising:

- (a) a first compartment containing a stale air blower, said first compartment having a plurality of openings therein for providing for a stale airstream from an indoor climate to flow into said first compartment,
- (b) a second compartment containing the fresh air blower and the motor, said second compartment adjacent said first compartment, said second compartment having a plurality of openings therein for providing for a fresh airstream to flow out of said second compartment and into the indoor climate,
- (c) a third compartment generally parallel to and adjacent to both said first and second compartments, said third compartment containing said rotating air switch, said first and third compartments having a common opening there between for the stale airstream to flow from said first compartment into said third compartment, and into a stale air passageway in the rotating air switch, said third compartment having a common opening to said second compartment disposed in communication with an opening in one of said opposing side plates of the rotating air switch, and
- (d) a fourth compartment generally parallel to and adjacent to said third compartment, said fourth compartment generally parallel to and spaced from both said first and second compartments by said third compartment, said fourth compartment containing the regenerative heat exchangers, said fourth compartment having a common opening to said third compartment through which the other opposing side plate of the rotating air switch is in communication, said fourth compartment having a plurality of openings permitting the fresh airstream to flow into the regenerative heat exchangers from an outdoor climate and the stale airstream to flow out of the regenerative heat exchangers into the outdoor climate.



A3. B2  
21. (Amended) A method of providing indoor ventilation using a heat recovery ventilator having stationary rectangular regenerative heat exchangers, two blowers, one rotating air switch which, during operation, rotates in a single direction, a motor for driving the blower and air switch, all disposed in a housing, the housing having stale air openings for allowing a stale airstream to enter the housing and fresh air openings for allowing fresh air to exit from said housing, the method comprising the steps of:

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- (a) forcing a stale airstream from an indoor climate into the housing,
  - (b) blowing the stale airstream into the rotating air switch,
  - (c) transporting the stale airstream from the rotating air switch into the stationary rectangular regenerative heat exchangers,
  - (d) simultaneously exchanging heat and moisture from the stale airstream onto the regenerative heat exchangers and forcing the stale airstream to flow out of the housing,
  - (e) forcing fresh air into the housing and through the same regenerative heat exchangers,
  - (f) exchanging heat and moisture on the regenerative heat exchangers into the fresh airstream,
  - (g) forcing the fresh airstream, which is heated and moisturized, into the rotating air switch and through the fresh air blower, and
  - (h) forcing the fresh airstream, which is heated and moisturized, out of the housing and into the indoor climate.

A4.  
24. (New) A heat recovery ventilator for use in a room, comprising a housing, two blowers, at least two stationary regenerative heat exchangers, a shaft, a single continuously rotating air switch mounted on said shaft, a motor for driving said blowers and said shaft, one of said blowers for forcing a stale airstream out of the room, the other of said blowers for forcing a fresh airstream into the room, said air switch, in use, alternately imparting the stale airstream from one said blower to a regenerative heat exchanger, then imparting the fresh airstream to that same heat exchanger and through said other blower, when said air switch rotates in a 180° turn.